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FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Growing black locust trees. Wilbur R. Mattoon, Forest Service. 30 p., illus. (F. B. 1628F, rev.) Price, 5¢.

The farmer looks ahead. Bureau of Agricultural Economics. 16 p., illus. (F. B. 1774F.) Price, 5¢.

"Our permanent policy with respect to agriculture must shape itself to give the farmer his fair share of prosperity, having due regard to the long-time interests of the national community as a whole", says Secretary Wallace in his introduction to this publication.

TECHNICAL BULLETINS

The Technical Bulletin series contains the result of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Blast-furnace processes for the production of phosphatic and potassic fertilizer materials. P. H. Royster, K. G. Clark, T. P. Hignett, L. E. Bowe, H. I. Lansdon, J. C. Southard, and J. W. Turrentine, Bureau of Chemistry and Soils. 75 p., illus. (T. B. 543T.) Price, 10¢.

This bulletin describes a phase of the research concerned with an investigation, by means of small-scale apparatus, of the technical feasibility and commercial practicability of producing phosphatic and potassic fertilizer materials by blast-furnace processes.

Effect of different methods of grazing on native vegetation and gains of steers in northern Great Plains. W. H. Black, A. L. Baker, and V. I. Clark, Bureau of Animal Industry; and O. R. Mathews, Bureau of Plant Industry. 19 p., illus. (T. B. 547T.) Price, 5¢.

With the disappearance of the open range in most areas and the consequent heavy stocking of pastures, the need for reliable information on the effect of different methods of grazing on the native vegetation became apparent. To obtain such information, the experiments reported in this bulletin were made.

Control of southern celery mosaic in Florida by removing weeds that serve as sources of mosaic infection. F. L. Wellman, Bureau of Plant Industry. 16 p., illus. (T. B. 548T.) Price, 5¢.

Results of the study show that this particular mosaic virus exists most frequently from season to season in perennial weeds, and is largely spread by insects which, however, do not carry it to extreme distances. Measures for the control of southern celery mosaic consist of weed removal and are described in detail in this publication.

Protection of apples and pears in transit from the Pacific Northwest during the winter months. E. D. Mallison and E. A. Gorman, Jr., Bureau of Plant Industry; and W. V. Hukill, Bureau of Agricultural Engineering. 55 p., illus. (T. B. 550T.) Price, 10¢.

These investigations have been conducted in cooperation with the fruit shippers in the Pacific Northwest and the railroads serving the territory and eastern connecting lines. This report includes a summary of the results of a series of investigations conducted from 1917 to 1922, but for the most part is concerned with studies and tests made from 1927 to 1935.

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- Ariz.-12. (In vol. 54, no. 2.) The biological value of the proteins in hegari and the supplemental value of certain protein concentrates used in farm animal feeding. Margaret Cammack Smith and Gladys Hartley Roehm.
- E-69. (In vol. 54, no. 3.) Losses of organic substance in the spontaneous heating of alfalfa hay. E. J. Hoffman and M. A. Bradshaw.
- F-81. (In vol. 54, no. 2.) The influence of rainfall upon tuft area and height growth of three semidesert range grasses in southern Arizona. Paul B. Lister and Francis X. Schumacher.
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- Wis.-84. (In vol. 54, no. 3.) The production of milk of abnormal composition by animals free from udder streptococci. E. G. Hastings and B. A. Beach.

Journal of agricultural research. Vol. 54, no. 6. March 15; no. 7, April 1, 1937. Illus.

Monthly weather review. Vol. 65, no. 2, February 1937. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹ Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretative summary, and (3) climatological tables.

Public roads. Vol. 18, no. 3, May 1937. Price, 10¢ a copy; \$1 a year, \$1.50 a year, foreign.¹

Soil conservation. Vol. 2, no. 11, May 1937. Price, 10¢ a copy; \$1 a year, domestic.¹

Issued monthly by the Soil Conservation Service. Seeks to supply to workers and cooperators of the Department of Agriculture engaged in soil-conservation activities information of especial help to them in the performance of their duties.

Weekly weather and crop bulletin. Nos. 18-21, May 4-25, 1937. Price 50¢ a year domestic; 90¢ a year, foreign.¹

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